

Date: Thu, 20 Oct 94 04:30:20 PDT
From: Ham-Ant Mailing List and Newsgroup <ham-ant@ucsd.edu>
Errors-To: Ham-Ant-Errors@UCSD.Edu
Reply-To: Ham-Ant@UCSD.Edu
Precedence: List
Subject: Ham-Ant Digest V94 #350
To: Ham-Ant

Ham-Ant Digest Thu, 20 Oct 94 Volume 94 : Issue 350

Today's Topics:

 ACURATE ROTATORS ???
 Antenna...kewl!
 Antenna design software for PC's
 Any MFJ-1798 Comments?
 Cable Experts
 FOR SALE: Tower and Beam Antenna
 Looking for RG information (2 msgs)
 NEC help
 Yaesu G5400B for Sale

Send Replies or notes for publication to: <Ham-Ant@UCSD.Edu>
Send subscription requests to: <Ham-Ant-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Ant Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-ant".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 19 Oct 94 17:29:54 GMT
From: washpenn!swider (Rob Swider)
Subject: ACURATE ROTATORS ???

In article <itbkl.27.782544661@puknet.puk.ac.za>, itbkl@puknet.puk.ac.za (Keith Laaks) writes:

> I read somewhere that most of the 'commercial' rotators is not capable of
> rotating with an acceptable accuracy for EME. Apparently you need the
> rotator to be able to rotate to within 0.5 or 0.25 of a degree (in both
> planes).
>
> Does anybody know of a rotator that can do this?

What about using a motorized telescope mount. They have the accuracy you

need since amateur astronomers use them for astrophotography. I doubt that the weight would be a problem since telescopes can get very heavy. Check Sky & Telescope magazine, there should be a number of places advertising mounts.

Rob
washpenn!swider@uunet.uu.net

Date: 19 Oct 1994 19:55:38 -0400
From: c002@ns3.CC.Lehigh.EDU (David M. Roseman)
Subject: Antenna...kewl!

i have made and used a real nice cheap mobile antenna...
all u need is a mount/spring <ball mount, mirror, etc...> with a 3/8-24 thread,
and a 102" whip cut to 81" and there u go!

it's pretty good on gain, and if u like big antennas, there u go!!

DAvid

David Roseman	c002@lehigh.edu
SysOp of NODE 3 BBS	The Flying HAM - BBS
Running OBV/2 Software	KBR-9318 - CB
	N3SQE/SVARC - Ham
HAMmy in IRC	N3SQE@N3IQD.FN20GO.PA.USA.NA - Packet

Date: Wed, 19 Oct 1994 21:43:27
From: srjones@infi.net (Steven R. Jones)
Subject: Antenna design software for PC's

In article <a10957.20.000A256A@rvtnfs01.eskom.co.za> a10957@rvtnfs01.eskom.co.za (Stan Holmes) writes:

>From: a10957@rvtnfs01.eskom.co.za (Stan Holmes)

>Subject: Antenna design software for PC's

>Date: Wed, 19 Oct 1994 10:08:42

>Keywords: Antenna software

>Hi

> Can anyone tell me where I can find ANTENNA DESIGN SOFTWARE for a PC?

>Thanks

> Stan
>stan@tri.eskom.co.za

Try ELNEC. Its tried and true, easy interface and fairly utilitarian. There are numerous other packages for special purposes (e.g. yagi optimization) as well. See one of the major magazines for ads.

Steven R. Jones
Virginia Beach, VA

Date: 19 Oct 1994 14:04:20 GMT
From: reichert@rtsg.mot.com (Charles H. Reichert)
Subject: Any MFJ-1798 Comments?

Has anyone out there obtained and tried out the MFJ-1798 80
-> 2 Meter Vertical yet. I did obtain the installation
guide which doesn't give a very clear picture of the
antenna. How is the performance, installation, mechanical
strength, appearance, etc.

I'm sure there's a lot of other hams wondering about this
"vapor antenna" as I have since it was supposed to be out
last March.

Please reply to this group as I regularly read it.

Thanks in advance, Chuck KD9JQ

Date: 19 Oct 1994 19:51:39 -0400
From: c002@ns3.CC.Lehigh.EDU (David M. Roseman)
Subject: Cable Experts

>In article <37p6bj\$2q16@ns3.CC.Lehigh.EDU> c002@ns3.CC.Lehigh.EDU (David M. Roseman) writes:

>>i was wondering what the address is for the Cable experts so i can get a
>>catatlog....

>

>They don't really have a catalog (so the prices are lower), only a few
>sheets listing their wares.

>

>Cable X-Perts, Inc
>113 McHenry Rd. Ste 240
>Buffalo Grove, IL 60089
>708-506-1886

>

ok. thanks alot for the info...

DAvid

David Roseman	c002@lehigh.edu
SysOp of NODE 3 BBS	The Flying HAm - BBS
Running OBV/2 Software	KBR-9318 - CB
	N3SQE/SVARC - Ham
HAmmy in IRC	N3SQE@N3IQD.FN20GO.PA.USA.NA - Packet

Date: 19 Oct 94 18:37:57 PST
From: comet@us.oracle.com
Subject: FOR SALE: Tower and Beam Antenna

Tri-ex W-51 crankup tower for sale. Height 51 ft fully extended. Tower in good condition, but needs new raising cable and base. Pickup only near Half Moon Bay, CA. Asking \$300 or best offer.

KLM KT34 4 element triband Yagi. Complete with manuals pickup only. Asking \$150 or best offer. Pickup only.

Reply via email only to bwalsh@us.oracle.com

Thanks, -Kevin

Date: 19 Oct 1994 15:20:40 GMT
From: tom_boza@ccm.hf.intel.com (WB7ASR)
Subject: Looking for RG information

Does anyone know where I can acquire a complete list of all the RG coax specifications? I mean ALL !!!

Im want RG-1 through RG-100000000 and everything in between. I need the OHM, V, and % of shelding for each RG type.

Thanks, Tom WB7ASR...

Date: Wed, 19 Oct 1994 17:55:00 GMT
From: rossi@VFL.Paramax.COM (Pete Rossi)
Subject: Looking for RG information

In article <383dg8\$84p@chnews.intel.com> tom_boza@ccm.hf.intel.com (WB7ASR) writes:

>
>Does anyone know where I can acquire a complete list
>of all the RG coax specifications? I mean ALL !!!
>
>Im want RG-1 through RG-100000000 and everything
>in between. I need the OHM, V, and % of shielding for
>each RG type.
>
>Thanks, Tom WB7ASR...

Might be interesting but probably not that useful. Most of the types are probably not normally available or are very subtle variations of RG8, RG58 and RG59 types.

RG8 really doesn't mean much any more. To me RG8 simply means :
" Large diameter coax that is about 50 ohms " PERIOD.

It says nothing about loss, velocity factor, shield type/density, dielectric, jacket type, power/voltage rating, etc.

Most large coax-es these days say "RG8 TYPE" on them. That word "TYPE" makes all the difference.

When you buy coax these days the only way to be safe and know what you are getting is to specify a manufacturers part number. Belden 8214, Belden 9913, etc.. The "RG" numbers are meaningless if you ask me.

Pete Rossi - WA3NNA
rossi@vfl.paramax.com
Unisys Corporation - Government Systems Group
Valley Forge Engineering Center - Paoli, Pennsylvania

Date: Wed, 19 Oct 1994 16:53:16 GMT
From: ae517@FreeNet.Carleton.CA (Russ Renaud)
Subject: NEC help

Is there a text file anywhere to describe all the fields for a

NEC input card. I can figure some of them out for myself, ie
GW, RP, etc, but it would be nice to know other possible inputs or modifiers.

Also, how do you display the pattern results? I have wjgraps, but I'm not
sure if I'm using it properly (no docs). Does Wires 1.5 perform the same
function?

Any help would be appreciated.

de va3rr
renaudr@tc.gc.ca

Date: 19 Oct 1994 11:35:34 -0400
From: mikewood@mercury.interpath.net (The Signal Group)
Subject: Yaesu G5400B for Sale

I have a Yaesu G5400B Az-el antenna rotor for sale.

I bought the unit new from Amateur Electronic Supply
several years ago but never bought any satellite
capable VHF/UHF radios or antennas. The unit has been
taken out of the box but has never been installed.

The package includes the rotor, control box and the
hardware for a complete installation.

I will sell for the best reasonable offer. I will ship
via UPS at your expense.

Please email me only if seriously interested .

Mike Wood Internet: mikewood@mercury.interpath.net
The Signal Group Amateur Radio: NT40
P.O. Box 1979 ***Avoid company disclaimers by owning the company ***
Wake Forest, NC 27588

Phone: 919-556-8477 Fax: 919-556-0115

Date: 19 Oct 1994 17:39:45 GMT
From: moritz@ipers1.e-technik.uni-stuttgart.de ()

References<37vjjc\$8vq@newsbf01.news.aol.com>

<1994Oct18.151414.7898@ke4zv.atl.ga.us>, <1994Oct19.140936.21835@arrl.org>
Subject: Re: Antenna Analyzers/Old QST magazines

>: VSWRs over 10:1, IE 50 db return loss.

Zack, I bet its a typo. Moritz DL5UH

Date: 19 Oct 1994 16:37:12 GMT
From: little@iamu.chi.dec.com (Todd Little)

References<37tlqh\$1ij2@info2.rus.uni-stuttgart.de> <380fn7\$m0n@nntpd.lkg.dec.com>,
<3813o2\$1gd7@info2.rus.uni-stuttgart.de>
Reply-To: little@iamu.chi.dec.com (Todd Little)
Subject: Re: 2m quad construction - help!

In article <3813o2\$1gd7@info2.rus.uni-stuttgart.de>, moritz@ipers1.e-technik.uni-stuttgart.de () writes:

|>>I just quickly
|>>modeled a 12 element 2.5 wavelength quad and it yields a forward gain
|>>figure comparable to a 2.5 wavelength K1F0 design (+- .2 dB).
|>
|>Todd,
|>
|>I shall be convinced if you let me know the actual gain figure.

Here is an actual NEC 2 input deck for a slightly shorter quad than the K1F0 2.5 wavelength 2 meter antenna. It yields a calculated gain of 14.4 dBi versus 14.6 dBi for the K1F0. I could optimize the design a little more for higher forward gain and a slightly cleaner pattern, but I just put this together as an example that similar length long antennas yield similar gains. Please feel free to model the antenna yourself.

Have fun.

73,
Todd
N9MWB

CM 12 element QUAD on a 6.800000m boom for 144.200000 Mhz
CM Generated on Tue Oct 18 06:48:36 1994 by optimizer
CE
GW 1 3 0.000000 0.000000 -0.285870 0.000000 0.285870 -0.285870 0.001885
GW 1 6 0.000000 0.285870 -0.285870 0.000000 0.285870 0.285870 0.001885
GW 1 3 0.000000 0.285870 0.285870 0.000000 0.000000 0.285870 0.001885
GW 2 3 0.566205 0.000000 -0.272876 0.566205 0.272876 -0.272876 0.001885

```

GW 2 6 0.566205 0.272876 -0.272876 0.566205 0.272876 0.272876 0.001885
GW 2 3 0.566205 0.272876 0.272876 0.566205 0.000000 0.272876 0.001885
GW 3 3 1.132411 0.000000 -0.255984 1.132411 0.255984 -0.255984 0.001885
GW 3 6 1.132411 0.255984 -0.255984 1.132411 0.255984 0.255984 0.001885
GW 3 3 1.132411 0.255984 0.255984 1.132411 0.000000 0.255984 0.001885
GW 4 3 1.854545 0.000000 -0.262481 1.854545 0.262481 -0.262481 0.001885
GW 4 6 1.854545 0.262481 -0.262481 1.854545 0.262481 0.262481 0.001885
GW 4 3 1.854545 0.262481 0.262481 1.854545 0.000000 0.262481 0.001885
GW 5 3 2.420751 0.000000 -0.241690 2.420751 0.241690 -0.241690 0.001885
GW 5 6 2.420751 0.241690 -0.241690 2.420751 0.241690 0.241690 0.001885
GW 5 3 2.420751 0.241690 0.241690 2.420751 0.000000 0.241690 0.001885
GW 6 3 2.986956 0.000000 -0.229995 2.986956 0.229995 -0.229995 0.001885
GW 6 6 2.986956 0.229995 -0.229995 2.986956 0.229995 0.229995 0.001885
GW 6 3 2.986956 0.229995 0.229995 2.986956 0.000000 0.229995 0.001885
GW 7 3 3.605138 0.000000 -0.245588 3.605138 0.245588 -0.245588 0.001885
GW 7 6 3.605138 0.245588 -0.245588 3.605138 0.245588 0.245588 0.001885
GW 7 3 3.605138 0.245588 0.245588 3.605138 0.000000 0.245588 0.001885
GW 8 3 4.223320 0.000000 -0.224798 4.223320 0.224798 -0.224798 0.001885
GW 8 6 4.223320 0.224798 -0.224798 4.223320 0.224798 0.224798 0.001885
GW 8 3 4.223320 0.224798 0.224798 4.223320 0.000000 0.224798 0.001885
GW 9 3 4.841502 0.000000 -0.240391 4.841502 0.240391 -0.240391 0.001885
GW 9 6 4.841502 0.240391 -0.240391 4.841502 0.240391 0.240391 0.001885
GW 9 3 4.841502 0.240391 0.240391 4.841502 0.000000 0.240391 0.001885
GW 10 3 5.459684 0.000000 -0.237792 5.459684 0.237792 -0.237792 0.001885
GW 10 6 5.459684 0.237792 -0.237792 5.459684 0.237792 0.237792 0.001885
GW 10 3 5.459684 0.237792 0.237792 5.459684 0.000000 0.237792 0.001885
GW 11 3 6.077865 0.000000 -0.226097 6.077865 0.226097 -0.226097 0.001885
GW 11 6 6.077865 0.226097 -0.226097 6.077865 0.226097 0.226097 0.001885
GW 11 3 6.077865 0.226097 0.226097 6.077865 0.000000 0.226097 0.001885
GW 12 3 6.696047 0.000000 -0.232594 6.696047 0.232594 -0.232594 0.001885
GW 12 6 6.696047 0.232594 -0.232594 6.696047 0.232594 0.232594 0.001885
GW 12 3 6.696047 0.232594 0.232594 6.696047 0.000000 0.232594 0.001885
GX 100 010
GE
FR 0 0 0 0 144.200000
EX 0 2 1 0 5. 0.
EX 0 102 1 0 -5. 0.
PT -1
PL 3 2 0 3
RP 0 1 181 1100 90. 0. 0. 1.0
EN

```

Date: Wed, 19 Oct 1994 15:57:28 GMT
From: gary@ke4zv.atl.ga.us (Gary Coffman)

References<37vjjc\$8vq@newsbf01.news.aol.com>

<19940ct18.151414.7898@ke4zv.atl.ga.us>, <19940ct19.140936.21835@arrl.org>
Reply-To: gary@ke4zv.atl.ga.us (Gary Coffman)
Subject: Re: Antenna Analyzers/Old QST magazines

In article <19940ct19.140936.21835@arrl.org> zlau@arrl.org (Zack Lau (KH6CP))
writes:

>Gary Coffman KE4ZV (gary@ke4zv.atl.ga.us) wrote:

>

>: I have the AEA (the VHF/UHF version). It's an excellent tool, but it
>: does have some limitations. The primary problem is that it can't deal
>: with VSWRs over 10:1, IE 50 db return loss. That limits its usefulness
>: for fine tweaking cavities and stubs. It does make rough tuning of
>: duplexers really quick and easy though.

>

>I wonder if anyone understood this?

Not me. :-)

What I *meant* to say was that it can't display VSWR over 10:1 *or*
return losses > 50db. The former is more of a limitation than the
latter.

Gary

--

Gary Coffman KE4ZV		You make it,		gatech!wa4mei!ke4zv!gary
Destructive Testing Systems		we break it.		emory!kd4nc!ke4zv!gary
534 Shannon Way		Guaranteed!		gary@ke4zv.atl.ga.us
Lawrenceville, GA 30244				

End of Ham-Ant Digest V94 #350
